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FIRST NAMED INVENTOR APPLICATION NO. FILING DATE ATTORNEY DOCKET NO. 21144- 565 电量操作的 11/12/99 Herasia 3. 293 **EXAMINER** Таттельны Т CARUL B GRUPP1 AHA. MCCOTCHEN DUVLE BROWN & ENERSEN LLF **ART UNIT** PAPER NUMBER THREE EMBARCADERO CENTER 1635 SAN FRANCISCO DA 94111-4666 DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

01/18/01

		Application	n No.	Applicant(s)
•	<i>,</i>	09/439.293	3	CABOT ET AL
	Office Action Summary	Examiner		Art Unit
		Jane Zara		1635
_ ·	The MAILING DATE of this communic	cation appears on the c	over she	eet with the correspondence address
Period fo	r Reply			
THE N - Exten after 3 - If the - If NO - Failur - Any r	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN isions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comperiod for reply specified above is less than thirty (3 period for reply is specified above, the maximum streeto reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1 704(b)	ICATION. s of 37 CFR 1 136 (a) In no evenunication. 30) days, a reply within the statu tatutory period will apply and will have the apply.	ent, however tory minimu Lexpire SIX ication to be	er, may a reply be timely filed um of thirty (30) days will be considered timely. (6) MONTHS from the mailing date of this communication. ecome ABANDONED (35 U.S.C. § 133)
1)	Responsive to communication(s) fi	iled on <u>30 October 200</u>	<u>)0</u> .	
2a) □	This action is FINAL .	2b)⊠ This action is		ıl.
3)	Since this application is in condition closed in accordance with the practice.	on for allowance except ctice under <i>Ex parte Q</i>	t for form uayle, 19	nal matters, prosecution as to the merits is 935 C.D. 11, 453 O.G. 213.
•	ion of Claims			
	Claim(s) <u>1, 3-8, 10-15 & 17-19</u> is/are pending in the application.			
	4a) Of the above claim(s) is/are withdrawn from consideration.			
5)				
6)[]	Claim(s) <u>1,3-8, 10-15 & 17-19</u> is/are rejected.			
7)	Claim(s) is/are objected to.			
8)	Claims are subject to restri	iction and/or election re	equirem	ent.
Applicat	tion Papers			
9)	The specification is objected to by	the Examiner.		
10)				
11)	☐ The proposed drawing correction filed on is: a)☐ approved_b)☐ disapproved.			
12)	The oath or declaration is objected	to by the Examiner.		
Priority	under 35 U.S.C. § 119			
13)	Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).			
a	a) All b) Some * c) None of:			
	1. Certified copies of the priority documents have been received.			
	2. Certified copies of the priority documents have been received in Application No			
*	3. Copies of the certified copie application from the Inte See the attached detailed Office act	ernational Bureau (PCT	Rule 17	ve been received in this National Stage 7.2(a)). pies not received.
_				
14)	Acknowledgement is made of a cir	aim for domestic phon	.,	
Attachme			F⊃I	Interview Summary (PTO-413) Paper Nois, 11
16) N	otice of References Cited (PTO-892) otice of Draftsperson's Patent Drawing Review (formation Disclosure Statement(s) (PTO-144)	w (PTO-948) 9) Paper No(s) <u>9 & 10</u>	18, 🔀 19) 🗍 20. 🗍	Notice of Informal Patent Application (PTO-152)
S Estentiant	7 *: 3.5 p = 3.4 ° P = p			Dam of Dames No. 40

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DETAILED ACTION

This Office action is in response to the communication filed October 30, 2000, Paper No. 7, and to the interview with Carol Gruppi, Applicants' representative, on or about January 11, 2001.

Claims 1, 3-8, 10-15 and 17-19 are pending in the instant application.

Withdrawn Objections and Rejections

Rejection of claims 1, 2, 8, 9, 15 and 20 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention, is withdrawn in light of Applicants' amendments filed October 30, 2000, Paper No. 7.

Rejection of claims 1-5 under 35 U.S.C. 103(a) as being unpatentable over Ichikawa et al in view of Lavie et al and further in view of Milner and James is withdrawn in light of Applicants' arguments and amendments, filed October 30, 2000, Paper No. 7.

Retained Rejections

Claims 1, 3-8, 10-15 and 17-29 are rejected under 35 U.S.C. 112, first paragraph, for the same reasons as set forth in the Office action mailed April 26, 2000, Paper No. 5.

Applicants' arguments have been fully considered but they are not persuasive. Applicants argue that the full scope of the claims are enabled by the disclosed specification, whereby the

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expression of glucosylceramide synthase is inhibited in adriamycin resistant cells in vitro following administration of an antisense molecule which targets full length mRNA encoding glucosylceramide synthase, and further whereby antisense treated cells become sensitive to chemotherapeutic agents such as adriamycin. No evidence has been provided in the specification for the successful targeting and inhibition of the target glucosylceramide synthase gene in an organism by antisense which specifically target said gene, and further whereby adriamycin sensitivity is achieved in the appropriate target cell or cells in vivo. No evidence has been provided in the specification for the successful targeting and inhibition of glucosylceramide synthase expression in a target cell in vitro or in vivo by antisense other than using antisense targeting mRNA encoding full length glucosylceramide synthase. Therefore, the full scope of the claims are not enabled by the disclosed specification, which scope comprises compositions and methods for the inhibition of glucosylceramide synthase in any and/or all cells in vitro and in vivo comprising the administration of antisense and further whereby target cells change from adriamycin resistant to adriamycin sensitive cells upon antisense treatment.

Conclusion

Certain papers related to this application may be submitted to Art Unit 1635 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). The official fax telephone numbers for the Group are (703) 308-4242 and (703) 305-

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3014. NOTE: If Applicant does submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jane Zara whose telephone number is (703) 306-5820. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John LeGuyader, can be reached on (703) 308-0447. Any inquiry regarding this application should be directed to the patent analyst, Katrina Turner, whose telephone number is (703) 305-3413. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

JZ

January 16, 2001

PATENT EXAMINER

TC 1600